Guide For Landscaping

City of Lake Stevens
Department of Planning and Community Development
Administrative Policy No. 1995-3

E-1: Guide for Protecting Existing Trees. LSMC 14.76.120 provides for the retention and protection of large trees when land is developed. To better ensure the survival of existing trees, the developer should heed the following guidelines (in addition to the requirements of LSMC 14.76.120):

- (1) Protect trees with fencing and armoring during the entire construction period. The fence should enclose an area 10 feet square with the tree at the center.
- (2) Avoid compaction of the soil around existing trees due to heavy equipment. Do not pile dirt or other materials beneath the crown of the tree.
- (3) Keep fires or other sources of extreme heat well clear of existing trees.
- (4) Repair damaged roots and branches immediately. Exposed roots should be covered with topsoil. Severed limbs and roots should be painted. Whenever roots are destroyed, a proportionate amount of branches must be pruned so the tree doesn't transpire more water than it take in. Injured trees must be thoroughly watered during the ensuing growing year.
- (5) Prune all existing trees that will be surrounded by paving to prevent dehydration.
- <u>E-2: Standards for Street and Parking Lot Trees.</u> Trees planted in compliance with the requirements of Sections 14.76.110 (Required Trees Along Dedicated Streets) and 14.76.130 (Shade Trees in Parking Areas) shall have most or all of the following qualities. The trees recommended in Section E-10 represent the best combinations of these characteristics.

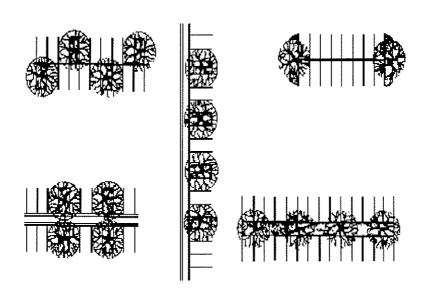
Hardiness	Resistance to Extreme Temperatures					
	Resistance to Drought					
	Resistance to Storm Damage					
	Resistance to Air Pollution					
	Ability to Survive Physical Damage From Human Activity					
Life Cycle	Moderate to rapid rate of growth.					
	Long Life.					
Foliage and Branching	Tendency to branch high above the ground.					
	Wide spreading habit.					
	Relatively dense foliage for maximum shading.					

Maintena	nce Resistance to pests.
	Resistance to plant diseases.
	Little or no pruning requirements.
	No significant litter problems.

E-3: Formula for Calculating 20 Percent Shading of Vehicle Accommodation Areas. The Following is an elementary formula for determining the number of shade trees required in and around paved parking lots in order to presumptively satisfy the shading requirements of LSMC 14.76.130 (Shade Trees in Parking Areas).

- Including parking spaces, driveways, loading areass, sidewalks, and other circulation areas and not including building area or any area which will remain completely undeveloped, calculate square footage of the vehicle accommodation area (in square feet).
- 2 Multiply the area arrived out in step one by 0.20 (20%) to determine the area of shading required.
- 3 Divide the area of shading arrived at in step two by 707* s.f. to determine the number of trees that are required within the vehicle accommodation area.

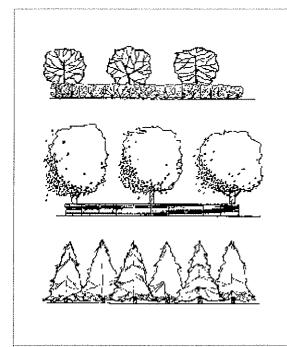
E-4: Typical Parking Lot Planting Islands.



^{*}Trees planted within the vehicle accommodation area are credited with shading 707 square feet (based on a crown radius of 15 feet.) New or existing trees on the perimeter of the parking lot are credited for having only half a crown over the vehicle accommodation area (i.e.354 square feet). Generally, all trees planted in compliance with the screening requirements of Chapter 14.76, Part I, and the street tree requirements of LSMC 14.76.110 will be considered perimeter trees. When smaller trees such as Dogwoods are planted, the credited shading area will be adjusted downward to 314 square feet for interior trees and 157 square feet for perimeter trees. (Based on crown radius of 10 feet.)

- <u>E-5:</u> Guide for Planting Trees. The trees recommended in Section E-10 have minimal maintenance requirements. However, all trees must receive a certain degree of care, especially during and immediately after planting. To protect an investment in new trees, the developer should ensure that the following guidelines are followed when planting:
- (1) The best times for plating are early spring and early fall. Threes planted in the summer run the risk of dehydration.
- (2) Plant all trees at least 32 feet from the end of head-in parking spaces to prevent damage from car overhangs.
- (3) Dig the tree pit at least one foot wider than the root ball and at least six inches deeper than the ball's vertical dimension.
- (4) Especially in areas where construction activity has compacted the soil, the bottom of the pit should be scarified or loosened with a pick ax or shovel.
- (5) After the pit is dug, observe subsurface drainage conditions. Where poor drainage exists, the tree pit should be dug at least an additional 12 inches and the bottom should be filled with coarse gravel.
- (6) Root barriers are required to be installed around all street trees within planter strips or within three feet of any concrete or asphalt.
- (7) Backfill should include a proper mix of soil, peat moss, and nutrients. All roots must be completely covered. Backfill should be thoroughly watered as it is placed around the roots.
- (8) Immediately after it is planted, the street should be supported with stakes and guy wires to hold it firmly into place as its root system begins to develop. Staked trees will become stronger more quickly. Remove states and ties after one year.
- (9) Spread at least three inches of mulch over the entire excavation in order to retain moisture and keep down weeds. An additional three-inch saucer of mulch should be provided to form a basin around the trunk of the tree. This saucer helps catch and retain moisture.
- (10) The lower trunks of new trees should be wrapped with burlap or paper to prevent evaporation and sun scald. The wrapping should remain on the three for at least one year.
- (11) Conscientious post planting care, especially watering, pruning, and fertilizing, is a must for street and parking lot trees. Branches of new trees may be reduced by as much as a third to prevent excessive evaporation.

E-6: Typical Opaque Screens.

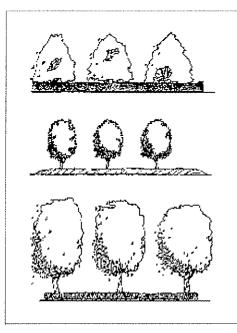


Small Trees planted 30' on center with a 6' high evergreen screening shrubbery planted 4' on center.

Large trees planted 40' on center with 6' high solid wood fence.

Tall evergreen trees, staggered, with branches touching the ground.

E-7: Typical Semi-Opaque Screens.

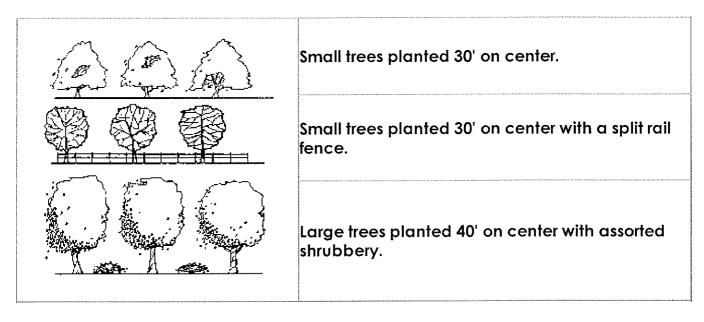


Small trees planted 30' on center, 3' high stone wall.

Small trees planted 10' on center on top of a berm.

Large trees planted 40 on center, with three foot high hedge shrubbery planted 3' on center

E-8: Typical Broken Screens.



<u>E-9: Guide for Planting Shrubs.</u> Shrubs planted for screening purposes should be given a proper culture and sufficient room in which to grow. Many of the guidelines for tree planting listed in Section E-5 also apply to shrubs. However, because specific requirements vary considerably between shrub types, this appendix does not attempt to generalize the needs of all shrubs. For detailed planting information on individual species, refer to one or more reliable reference sources on shrubs.

E-10: Table of Recommended Trees and Shrubs. The following table indicate plantings which will meet the screening and shading requirements of Chapter 14.76 of the landuse code. The table is by no means comprehensive and is intended merely to suggest the types of flora which would be appropriate for screening and shading purposes. Plants were selected for inclusion on these lists according to four principal criteria: (i) general suitability for the climate and soil conditions of this area, (ii) ease of maintenance, (iii) tolerance of city conditions, and (iv) availability from area nurseries. When selecting new plantings for a particular site, a developer should first consider the types of plants which are thriving on or near that site. However, if an introduced species has proven highly effective for screening or shading in this area, it too may be a proper selection.

		Table o	f Recommen	ded Trees a	nd Shrubs	·		
Botanical Name	Common Name	Small Trees for Partial Screening	T	Small Shrubs for Evergreen Screeing	Large Shrubs for Evergreen Screening	Schrubs for	Large Trees for Shading or Screening (no utility lines)	1
	Callery Pear	X						
	Fortune Tea Olive				Х			
Abelia grandiflora	Glossy Abelia		***************************************	Х				
Acer campestre	Hedge Maple							Х
Acer ginnala	Amur Maple							Х
Acer grisuem	Paperbark Maple							Х
Acer nigrum	Greencolumn						Х	
"Greencolumn"	Maple						^	
Acer Platanoides	Columnar Maple							
'Columnare',	Compact Maple						x	Х
'Compacta',	Compact Crimson						, ,	^
	King Maple							
Acer platanoides	Globe Norway							Х
'Globosum'	Maple							
Acer	Norway Maple							
platampodes								
'Cleveland',							Х	
'Deborah',		:						
'Schwedli',								
'Superform' Acer	Sycamore Maple	·····	·····	***************************************				
pseudoplatanus	Sycamore waple						X	
	Red Maple						X	
Acer rubrum	Upright Red							
'Bowhall', 'Scarlet	· -			:				
Sentinel', 'Karpic',	, viupicu						X	
'Doric'								
Acer saccharum	Legacy Sugar							
'Legacy'	Maple						X	
·····	Shantung Maple	**************************************						Х
Acer truncatum X								
· '	Maple							Х
'Warrenred'								
1	Bauman							
	Horsechestnut						Х	
'Baumanii'								
Aesculus x carnea	į.						Х	
	Horsechestnut							
Aorbus aria	Whitebeam						X	

Bambusa Hedge Bamboo multiplex Barberry Berberis Japanese thunbergii Barberry Berberis Japanese thunbergii Barberry X X Sarberry Sarberry X Sarberry Sarberry X Sarberry Sarberry Sarberry X Sarberry Sarberry Sarberry X Sarberry Sarbe	Botanical Name	Common Name	Small Trees for Partial Screening	Evergreen	Small Shrubs for Evergreen Screeing	Large Shrubs for Evergreen Screening	Assorted Schrubs for Broken Screening	Large Trees for Shading or Screening (no utility lines)	1
Berberis juliane Berberis juliane Barberry Berberis juliane Barberry Berberis juliane Barberry Berberis Barberry Berberis Warty Barberry X X September Warty Barberry X X September Septem	1	Hedge Bamboo				X			
Berberis Japanese Jap	······						····		
Berberis thunbergii Barberry Berberys Warty Barberry verruculosa Berberis Warty Barberry verruculosa Betula Jacquemontii Birch X Betula Jacquemontii Birch X Calocedrus Incense Cedar X Calocedrus Incense Cedar X Carpinus betulus Pyramedal Verruculosa Verruculosa Verruculosa Verruculosa Betula jacquemontii Birch X Calocedrus Incense Cedar X Calocedrus Incense Cedar X Carpinus betulus Pyramedal Verruculosa Verrucu	Berberis julianae				х				
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Betula nigra River Birch X Calocedrus Incense Cedar X Calocedrus Incense Cedar X decurrens Carpinus betulus Pyramedal European Hornbeam Carpinus betulus Globe European Hornbeam Carpinus carolinia Amarican Hornbeam Carpinus carolinia Amarican Hornbeam Cedrus deodara Deodar Cedar X Cercidiphyllum Japonicum Cercis canadensis Eastern Redbud X Chioanthus Fringetree Virginicus Cornus florida Flowering Dogwood X Cornus kousa Kousa Dogwood X Cornus kousa Kousa Dogwood X Cornus kousa Kousa Dogwood X Cordaegus Crus-galli 'Inermis' Cockspur Hawthorn Crataegus Washington Hawthorn Crataegus Washington Hawthorn Crataegus Russian Olive X Elaeagnus Russian Olive X		I '						Х	
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	lavallei								^
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Botanical Name	Common Name	Small Trees for Partial Screening	Large Trees for Evergreen Screening	Small Shrubs for Evergreen Screeing	Large Shrubs for Evergreen Screening	Assorted Schrubs for Broken Screening	Large Trees for Shading or Screening (no utility lines)	1
Elaengus pungens	Thorny Elaengus				X			
Fagus sylvatica	European Beech						Х	
Fagus sylvatica	Pyramidal Beech						.,	
'Dawyckii'							X	
Forsythia	Forsythia			***************************************				
intermedia, F.	,					.,		
suspensa, F.						X]	
viridissima								
Fraxinus	American Ash							
americana								
'Autum Purple',								
Autumn								
Applause',							X	
Champaign								
Country', 'Rose								
Hill'								
Fraxinus ornus	Flowering Ash						X	
Fraxinus oxycarpa								
'Raywood'	Maywood Asii						Х	
Fraxinus	Green Ash							
pennsylvanica	Green Asii							
l'							×	
'Patmore',]					^	
'Summit',								
Urbanite'	0.4 - 1.4 1 1 77							
Gingko biloba	Maidenhair Tree						X	
Gingko biloba	Princeton Sentry						x	
	Gingko							
Gleditisia	Honeylocust						X	
triacanthos	 							
Halesia monticola	1	x						
	Silverbell							
Hamamelis	Witch Hazel					X		
intermedia								
Hamamelis	Common Witch					l x		
virginiana	Hazel							
llex cornuta	Buford Holly				X			
'Burfordii'								
llex crenata	Japanese Holly			Х				
	(var. varieties)							

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Botanical Name	Common Name	Small Trees for Partial Screening	_	Small Shrubs for Evergreen Screeing	Large Shrubs for Evergreen Screening	Assorted Schrubs for Broken Screening	Large Trees for Shading or Screening (no utility lines)	
llex Opaca	American Holly	Х		······				
llex spp. (dwarf	various dwarf							
varieties)	Hollys			X				
Ilex vomitoria	Yaupon Holly				Х			
Juniperus	Pfitzer Juniper							
chinensis						Х		
'Pfitzerana'								
Koelreuteria	Goldenrain Tree	.,						
paniculata		X						
Lagerstroemia	Crepe Myrtle							
indica	' '	X						
Leucothoe	Drooping					.,		
fontanesiana	Leucothoe					X		
Ligustrum	Japanese Privet							
japonicum					X			
Liquidambar	Sweet Gum							
styracifula							X	
Liriodendron	Tuliptree							
tulipifera							X	
Lonicera	Winter					V		
fragrantissima	Honeysuckle					X		
Magnolia	Southern							
grandiflora	Magnolia		X					
Magnolia kobus	Kobus Magnolia							Χ
Magnoila stellata	Star Magnolia					Х		
Malus spp.	var. Crabapples							Χ
Malus tschonoskii								
	Crabapples							Х
Malus x zumi	Redbud							
'Calocarpa'	Crabapple							Х
Metaseqyoia	Dawn Redwood	Ċ						
glyptostroboide			Х					
Myrica	Northern							
pensylvanica	Bayberry					Х		
Oxydendrum	Sourwood							
arboreum		Х						
Parrotia persica	Persian Ironwood							Χ
Photinia fraseri	Red Photinia				×			
Photinia x fraseri	Redtip Photinia							.,
	Tree							Х

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Botanical Name	Common Name	Small Trees for Partial Screening	Large Trees for Evergreen Screening	Small Shrubs for Evergreen Screeing	Large Shrubs for Evergreen Screening	Assorted Schrubs for Broken Screening	Large Trees for Shading or Screening (no utility lines)	
Platanus	Sycamore or							
acerifolia	London Plane						x ,	
	Tree							
Prunus 'Okame'	Okame Flowering							х
	Cherry							
Prunus	Carolina Cherry-	Х		•				
caroliniana	Laurel							
1	Flowering Plum							x
'Krauter Vesuvius'	<u> </u>							
Prunus serrulata	Japanese							
var's.	Flowering Cherry varieties						Х	
Prunus x hillieri	Spire Cherry							
'Spire'								Х
Prunus x	Akebono Yoshino	***************************************						
yedoensis	Flowering Cherry						х	
'Akebono'	,							
Pyrus calleryana	Aristocrat	·····						
'Aristocrat'	Flowering Pear							Х
Pyrus calleryana 'Capital', 'Chanticleer'	Flowering Pears						Х	
Quercus	Sawtooth Oak						Х	
acutissima								
Quercus coccinea							Х	
Quercus ilex	Holly Oak							Х
Quercus	Single Oak						Χ	
imbricaria				······				
Quercus palustris					İ		χ	
'Crownright'	Oak							
Quercus phellos	Willow Oak						X	
Quercus robur	English Oak						Х	
Quercus robur	Upright English							Х
'Fastigiata'	Oak Bad Oak						V	
Quercus rubra	Red Oak						Х	
Quercus	Shumard Oak						Х	
shumardii Bhadadandran	Azalogo and							
Rhododendron	Azaleas and			Х				
spp.	Rhododendrons					<u> </u>		

Botanical Name	Common Name	Small Trees for Partial Screening	Large Trees for Evergreen Screening	Small Shrubs for Evergreen Screeing	Large Shrubs for Evergreen Screening	Assorted Schrubs for Broken Screening	Large Trees for Shading or Screening (no utility lines)	1
Sorbus ainfolia	Korena Mountain						х	
	Ash						^	
Sorbus aria	Whitebeam						Х	
Sorbus	Red Cascade							
tianshanica	Mountain Ash							х
'Dwardcrown'								
Sorbus x hybrida	Oak-leaved							х
	Mountain Ash							^
Styrax japonica	Japanese							Х
	Snowdrop Tree							^
Syringa reticulata	Japanese Tree							
(amurense var.	Lilac							Х
japonica)								
Taxus cuspidata	Japanese Yew			Х				
Thuja plicata	Western Red		Х					
	Cedar		^					
Tilia cordata	Littleleaf Linden						х	
'Chancelor'							^	
Tilia cordata	Littleleaf Linden						Х	
'Greenspire'				-			^	
Tilia tomentosa	Silver Linden						X	
Tiliia x euchlora	Crimean Linden						Х	
Tsuga spp.	var. Hemlocks		Χ					
Ulmus 'Pioneer', 'Homestead'	Hybrid Elms						X	